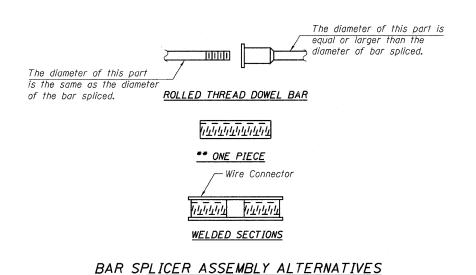
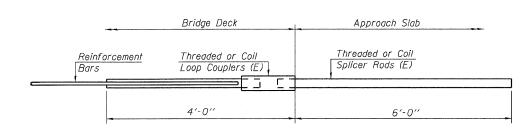
### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

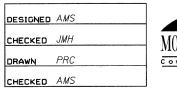


\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for #5	5 bar		
Min.	Capacity	= 23.0	kips -	tensio	n	
Мі∩.	Pull-out	Strength	- 12.3	3 kips	-	tension
No.	Required	= 0				

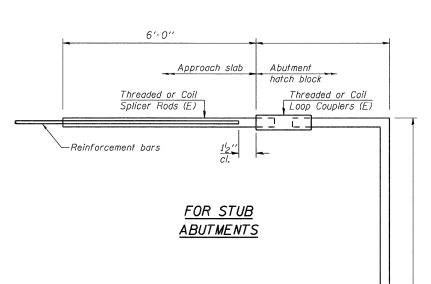


Consulting Engineers
SINCE : 893

Stage Construction Line Template <u>"A"</u> Threaded or Coil Forms -Splicer Rods (E) -Foam Plugs -Washer Face <u>"B"</u>

### INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 0

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

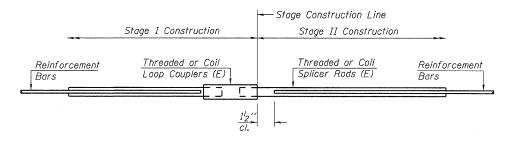
- Minimum Capacity (Tension in kips) =  $1.25 \times fy \times A_t$
- (Tension און געפעז (Tension און און) אוויא (Tension און און) אוויא אוויא אוויא אוויא אוויא (Tension און אוויא אייא אוויא אייא אוויא אוויא

(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

 $\hat{A}_t$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLICER ASSEMBLIES					
	Dowel Bar Lenath	Strength Requirements			
Bar Size to be Spliced		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-2''	23.0	12.3		
#6	2'-7''	33.1	17.4		
#7	3′-5′′	45.1	23.8		
#8	4′-6′′	58.9	31.3		
#9	5′-9′′	75.0	39.6		
#10	7'-3''	95.0	50.3		
#11	9'-0''	117,4	61.8		



## STANDARD

Bar Size	No. Assemblies Required	Location
#5	60	Top Slab
#5	60	Bottom Slab
#5	45	Walls

# BAR SPLICER ASSEMBLY DETAILS SN 028-2017

SI	SHEET NO. 6	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		9481	12B-1	FRANKLIN	304	124
	8 SHEETS SN 028-2017			CONTRACT	NO. 98	823
		FED. RC	DAD DIST. NO. 7   ILLINOIS FED. A	ID PROJECT		

BSD-1

10-1-08